

ABSTRACT

A non-aqueous electrolyte cell in which structural changes of the positive electrode active material are suppressed to increase the capacity further. The non-aqueous electrolyte cell includes a positive electrode containing a lithium-transition metal compound oxide as a positive electrode active material, a negative electrode containing a carbon compound or metal lithium as a negative electrode active material and a non-aqueous electrolyte interposed between said positive and negative electrodes. The lithium-transition metal compound oxide is represented by the general formula Li_xMnO_2 or $\text{Li}_x\text{Mn}_{1-y}\text{Al}_y\text{O}_2$ where $0.94 \leq x \leq 0.96$ and $0.06 \leq y \leq 0.25$.